

IN THE CLAIMS

Claims 1-4 (Canceled)

5. (New) An optical fiber which has a dispersion value of 14 ps/nm/km or higher and 20 ps/nm/km or less at a wavelength of 1550 nm, a positive dispersion slope of 0.05 ps/nm²/km or higher and 0.08 ps/nm²/km or less at a wavelength of 1550 nm, a transmission attenuation of 0.2 dB/km or less at a wavelength of 1550 nm, and an effective core area A_{eff} of 90 μm^2 or larger at a wavelength of 1550 nm.

6. (New) The optical fiber according to claim 5, wherein the effective core A_{eff} at a wavelength of 1550 nm is 100 μm^2 or larger.

7. (New) The optical fiber according to claim 5, further comprising a center core portion, a side core portion and clad portion in order from an inner side, wherein a relative refractive index difference $\Delta 1$ of the center core portion with respect to the clad portion is positive, a relative refractive index difference $\Delta 2$ of the side core portion with respect to the clad portion is positive, and an inequality $\Delta 1 > \Delta 2$ is satisfied.

8. (New) The optical fiber according to claim 6, further comprising a center core portion, a side core portion and clad portion in order from an inner side, wherein a relative refractive index difference $\Delta 1$ of the center core portion with respect to the clad portion is positive, a relative refractive index difference $\Delta 2$ of the side core portion with respect to the clad portion is positive, and an inequality $\Delta 1 > \Delta 2$ is satisfied.

9. (New) An optical transmission line comprising:

a plurality of optical fibers, each of which configured to transmit an optical signal, wherein at least one of said plurality of optical fibers has a dispersion value of 14 ps/nm/km or higher and 20 ps/nm/km or less at a wavelength of 1550 nm, a positive dispersion slope of 0.05 ps/nm²/km or higher and 0.08 ps/nm²/km or less at a wavelength of 1550 nm, a

transmission attenuation of 0.2 dB/km or less at a wavelength of 1550 nm, and an effective core area A_{eff} of $90 \mu\text{m}^2$ or larger at a wavelength of 1550 nm.

10. (New) An optical transmission line of claim 9, wherein the effective core A_{eff} of said at least one of the plurality of optical fibers at a wavelength of 1550 nm is $100 \mu\text{m}^2$ or larger.